

APPENDIX C
CHECKLIST FOR
DESIGN DOCUMENTS

1.0 DESIGN ANALYSIS

1.1 PROCESS DESCRIPTION

- 1.1.1 Sludge Characteristics
- 1.1.2 Conditioning Requirements
- 1.1.3 Performance Requirements
- 1.1.4 Description of Equipment and Controls

1.2 CALCULATIONS

- 1.2.1 Solids Management Calculations
- 1.2.2 Equipment Sizing
- 1.2.3 Conditioning Feed

1.3 RECORDS

- 1.3.1 Correspondence
- 1.3.2 Manufacturers Literature
- 1.3.3 Environmental Criteria

2.0 PLANS

2.1 PROCESS FLOW DIAGRAMS (Liquid and Solid)

2.2 EQUIPMENT LAYOUT PLAN

2.3 PIPING AND PLUMBING PLANS, SECTIONS, AND DETAILS

2.4 PROCESS & INSTRUMENTATION DIAGRAMS (Control Schematics)

2.5 CONNECTION DETAILS

2.6 COORDINATION WITH OTHER DISCIPLINES

- 2.6.1 General Plans (Drawing Index, Legend and General Notes, Abbreviations)
- 2.6.2 Structural Plans (Concrete Slab and Foundation Plans)
- 2.6.3 Architectural Plans (Interior and Exterior Elevations)

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- 2.6.4 Mechanical Plans (Hydraulic Profiles of Liquids and Solids, HVAC Plans and Details)
- 2.6.5 Electric Plans (Line Diagrams, Power and Control Plans)

3.0 GUIDE SPECIFICATIONS

3.1 EQUIPMENT SIZING (Based on Design Analysis Calculations)

3.2 FILTER PRESS COMPONENTS

3.3 ACCESSORIES (Coordinate with Other Guide Specifications)

- 3.3.1 Sludge Pumps Specifications
- 3.3.2 Sludge Storage/Handling Specifications
- 3.3.3 Chemical Feed Systems Specifications
- 3.3.4 Compressed Air (Plumbing) Specifications

3.4 SPECIAL MATERIAL REQUIREMENTS (Coordinate with All Guide Specifications)

3.5 RELATED SPECIFICATIONS

- 3.5.1 Electric Work Specifications
- 3.5.2 Plumbing and Piping Specifications
- 3.5.3 Installation (Concrete and Welding) Specifications

4.0 OPERATION & MAINTENANCE MANUALS

4.1 O&M PROCEDURES

- 4.1.1 Startup Procedures
- 4.1.2 Operating Procedures
- 4.1.3 Shutdown Procedures

4.2 SPECIFICATIONS AND PLANS

- 4.2.1 Equipment Specifications (Manufacturer's Name, Model Number, Description of Operating Functions)
- 4.2.2 Equipment Plans (Piping, Valve, Wiring, and Control Layouts)

4.3 EQUIPMENT CATALOGS

4.3.1 Descriptive Data (Bulletins and Cut Sheets)

4.3.2 Parts List (Required and Spare)

4.4 SERVICE REQUIREMENTS

4.4.1 Utility Requirements (Air, Electric, Water)

4.4.2 Maintenance Instructions (Routine Procedures,
Breakdowns and Repairs)

4.4.3 Troubleshooting Guide